



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/738,337	12/17/2003	Kenro Ohsawa	OOCL-32/CON (2TS-00S0337-	9711
26479	7590	06/14/2007	EXAMINER	
STRAUB & POKOTYLO 620 TINTON AVENUE BLDG. B, 2ND FLOOR TINTON FALLS, NJ 07724			AMINI, JAVID A	
			ART UNIT	PAPER NUMBER
			2628	
			MAIL DATE	DELIVERY MODE
			06/14/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/738,337	Applicant(s) OHSAWA, KENRO	
	Examiner Javid A. Amini	Art Unit 2628	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 April 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-39 is/are pending in the application.
- 4a) Of the above claim(s) 1-25 and 29-37 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 26-28, 38 and 39 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date <u>3/23/2007</u> . | 6) <input type="checkbox"/> Other: _____ |

Response to Amendment

Applicant's arguments with respect to claims 26-28, 38-39 has been considered but is moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 26-28, and 38-39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aloni et al. Patent No.: 6,219,011 B1, hereinafter Aloni, and in view of Ohsawa et al. Patent No.: 6,633,302 B1, hereinafter Ohsawa.

Claim 26.

Aloni teaches a color image display system (i.e. noted in col. 14 lines 42-49) comprising: Aloni teaches a plurality of partial image display (i.e. noted in col. 4 lines 34-44, discloses four modular units, and each modular unit is considered as a partial image display) means for displaying partial images to be synthetically displayed as one image (i.e. noted in the same column, which they can be assembled to produce a combined screen of the size), on the basis of partial image data, wherein each of the partial images is part of a color image (i.e. noted from fig. 24 a modular unit projects a Red/Green/Blue color image), and wherein the partial image data is data of part of a color image, and Aloni teaches image data conversion means for converting

Art Unit: 2628

input image data into said partial image data (i.e. noted in col. 2 lines 55-67, arranging the plurality of modular units in a side-by-side array such as to combine their respective displays to produce a combined display) on the basis of gray scale correction data (i.e. noted in col. 11 lines 40-44) and color conversion matrix data (i.e. noted in col. 14 lines 36-37) of each of said plurality of partial image display means, wherein each of the partial image data is provided to a corresponding one of the plurality of partial image display (see, an explanation, above) means such that the one image can be displayed, wherein the plurality of partial image display means is a multi-primary-color display (Aloni in fig. 24 discloses three colors Red/Green/Blue) means displaying each pixel Aloni in figs. 16 teaches for every pixel calculate the four surrounding points) with at least four primary colors.

Aloni does not explicitly specify displaying each pixel with at least four primary.

However, Ohsawa teaches displaying each pixel with at least four primary (i.e. noted in col. 10 lines 40-41).

Thus, it would have been obvious to a person skill in the art at the time of the invention to combine Ohsawa into Aloni in order to display accurately the input color image signal values, and it is desirable in all the color reproduction area of the display.

Claim 27.

Claim 27 is rejected with a similar reason as set forth in claim 26, above.

Claim 28.

Claim 28 is rejected with a similar reason as set forth in claim 26, above.

Claim 38.

Claim 38 is rejected with a similar reason as set forth in claim 26, above. Claim 38 cites nonuniformity correction coefficient data (i.e. noted in col. 11 line 25, eq. 1 the coefficient “k”, also claim 38 cites light-shielding place dimming overlap region of the partial image.

Aloni does not explicitly disclose light-shielding place dimming overlap region.

However, Examiner takes an official notice that the expression “light-shielding” is well known in the art, and it is similar to what the reference Aloni teaches as the light sensors 44 (or a photo sensor) in fig. 10, also see, in col. 7 lines 56-63. (See, Patent No.: 5,760,881; and Patent No.: 5,490,896 for “light-shielding”).

Claim 39 is rejected with similar reason as set forth in claim 38, above. However, claim 39 cites “... ND filter dimming overlap region ...” That is an optical filter that reduces the intensity of light. Aloni teaches in col. 7 lines 56-63 a light emitter 43 and a light sensor 44, the combination of these two sensors may be considered as a light filter.

It would have been obvious to one of ordinary skill in the art at the time of the invention to substitute applicant’s described structure, as a light sensor place dimming overlap region ... in order to display more than one modular unit in a seamless manner.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Javid A. Amini whose telephone number is 571-272-7654. The examiner can normally be reached on 8-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kee Tung can be reached on 571-272-7794. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Javid A Amini
Examiner
Art Unit 2628

J.A.

J.A.



KEE M. TUNG
SUPERVISORY PATENT EXAMINER